

City of Milwaukee Health Department Laboratory

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Bevan K. Baker, Commissioner of Health www.milwaukee.gov/health

SUMMARY OF CONFIRMED INFECTIONS

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Syphilis

Test	Total	Test	Total
RPR Reactive	10	Darkfield Reactive	0
VDRL Reactive	18	TP-PA Reactive	11

New Cases of Syphilis

Stage	Number of Cases			
	Dec 2016	Dec 2015		
Primary syphilis	0	0		
Secondary syphilis	0	0		
Early latent	0	0		
Late latent	2	1		
Total	2	1		

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics					
Tested	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin	
41	1 (R)	0	0	0	

Reference Cultures

Age	Sex	Source	Identification
29	M	Stool	Campylobacter jejuni
71	M	Stool Campylobacter jejuni	
59	M	Tracheal/Endotracheal swab	Corynebacterium pseudodiphtheriticum
82	F	Whole Blood Dermabacter hominis	
77	F	BAL Fluid	Lactobacillus reuteri
83	F	Urine	Salmonella Anatum

DNA Sequencing: The MHD laboratory uses 16S rRNA and the D2 region of the 26S rRNA genes for DNA sequence-based microbial identification of selective reference bacteria and fungal isolates.

Age	Sex	Source	Target gene	Final Identification
71	M	Stool	16 S rRNA	Campylobacter jejuni
29	M	Stool	16 S rRNA	Campylobacter jejuni
59	M	Tracheal/Endotracheal swab	neal swab 16 S rRNA Corynebacterium pseudo	
81	F	Blood	16 S rRNA	Dermabacter hominis

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	2	2	100
Mumps virus	Real time RT-PCR	13	1	8
Bordetella pertussis	Real time PCR	4	0	0
Influenza virus	Real time RT-PCR	7	0	0
Herpes simplex virus	Real time PCR	36	10	28

Chlamydia trachomatis (CT) and Neisseria gonorrhea (GC) Nucleic Acid Amplification

		CT		GC	
Source	Tested	Positives	Percent (%)	Positives	Percent (%)
Urine	488	65	13	51	10
Throat or NP	388	5	1	23	6
Rectal	116	15	13	5	4

Virus/Chlamydia trachomatis Isolation from Clinical Specimens

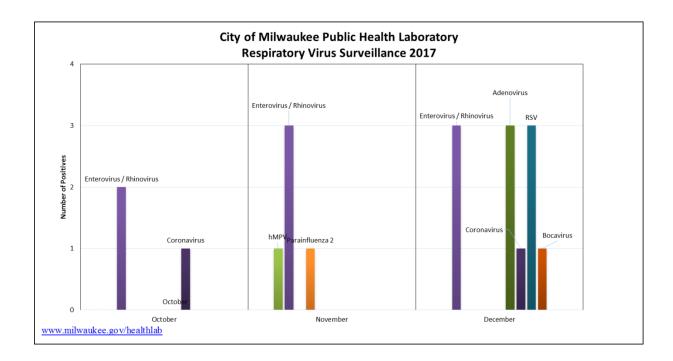
			Virus Isolat		
Agent	Throat Genital		Lesion Virus swab - Other*		Isolate (Total %)
Adenovirus	0	0	0	1	14
Enterovirus	0	0	0	1	14

^{*} Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources Specimens tested for virus: n = 7 (December 2016); Specimen tested for *Chlamydia* detection in culture: n = 2 (December 2016); Specimen tested for CMV n = 6 (December, 2016)

Respiratory Virus Surveillance:

Respiratory Virus Panel Test Results				
Virus	Positives	Percent (%)		
Human Adenovirus	3	17		
Enterovirus/Rhinovirus	3	17		
Respiratory Syncytial Virus	3	17		
Human Bocavirus	1	6		
Human Coronavirus OC43	1	6		

Specimens tested: n = 18 (Dec 2016 – Not including Influenza PCR data)



Note: The MHDL provides comprehensive detection of multiple respiratory viruses and their subtypes: Influenza A, Influenza B, Respiratory Syncytial Virus (RSV), Human Metapneumovirus (hMPV), Enterovirus/ Rhinovirus (ENT/HRV), Adenovirus, Parainfluenza (HPIV 1-4), Coronavirus and Boca viruses.

The RPP assay also detects three bacterial targets of respiratory interest: Chlamydia pneumoniae, Mycoplamsa pneumoniae, and Legionella pheumophila